BRUHATH BANGALORE MAHANAGARA PALIKE
EXECUTIVE ENGINEER
BYATARAYANAPURA DIVISION

MEASUREMENT SHEETS

Name of Work: Construction of Drain from Gangamma Temple Road to Chikkasiddappa Layout Amruthahalli in Ward No.07 Byatarayanapura.

Estimate Cost:- 30.00Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer, Byatarayanapura Division

Name of Work: Construction of Drain from Gangamma Temple Road to Chikkasiddappa Layout Amruthahalli in Ward No.07 Byatarayanapura.

Measurement Sheet

1st & Final Bill

ame of Agency: Sri. N.Venkata Reddy

tem No.	1								
Item Name:	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3								
SL NO	CHAINAGE		NO	L (m)	B1 (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:									
or RCC Drain									
Upto Culvert									
	0.00	0.00	1	0.00	2.40		2.60	0.00	
	0.00	15.00	1	15.00	2.40	2.40	2.45	88.20	
	15.00	30.00	1	15.00	2.40	2.40	2.50	90.00	
	30.00	45.00	1	15.00	2.40	2.40	2.55	91.80	
	45.00	60.00	1	15.00	2.40	2.40	2.60	93.60	
	60.00	75.00	1	15.00	2.40	2.40	2.50	90.00	
	75.00	90.00	1	15.00	2.40	2.40	2.50	90.00	
	90.00	94.50	1	4.50	2.40	2.40	2.60	28.08	
)ver burden earth									
			1	30.00	2.00	2.00	1.00	60.00	
			1	25.00	1.80	1.80	1.00	45.00	
	Total Quantity							676.68	Cum
	Quantity Carried to Summary							676.68	Cum

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.
Bangalore.

Contractor Representative

Asst Engineer
Ward No.07
BBMP

Asst. Executive Engineer
Kodigehalli Sub Division
BBMP

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer, Byatarayanapura Division

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Measurement Sheet

1st & Final Bill

Name of Agency: Sri. N.Venkata Reddy

Item No.	2								
Item Name:	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size & with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification. No. KBS 2.10.2								

SL NO	CHAINAGE		NO	L (m)	B1 (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:									
For RCC Drain									
Upto Culvert									
	0.00	0.00	1	0.00	2.40		0.45	0.00	
	0.00	15.00	1	15.00	2.40	2.40	0.45	16.20	
	15.00	30.00	1	15.00	2.40	2.40	0.45	16.20	
	30.00	45.00	1	15.00	2.40	2.40	0.45	16.20	
	45.00	60.00	1	15.00	2.40	2.40	0.45	16.20	
	60.00	75.00	1	15.00	2.40	2.40	0.45	16.20	
	75.00	90.00	1	15.00	2.40	2.40	0.45	16.20	
	90.00	94.50	1	4.50	2.40	2.40	0.45	4.86	
	Total Quantity							102.06	Cum
	Quantity Carried to Summary							102.06	Cum

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Contractor Representative

Asst Engineer
Ward No.07
BBMP

Asst. Executive Engineer
Kodigehalli Sub Division
BBMP

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer, Byatarayanapura Division

Name of Work: Construction of Drain from Gangamma Temple Road to Chikkasiddappa Layout Amruthahalli in Ward No.07 Byatarayanapura.

Measurement Sheet

1st & Final Bill

Name of Agency: Sri. N.Venkata Reddy

Item No.	3								
Item Name:	KSRB 4-1.3 : Providing and laying in position plain cement concrete of Mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2								

SL NO	CHAINAGE		NO	L (m)	B1 (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:									
For RCC Drain									
Upto Culvert									
	0.00	0.00	1	0.00	2.40		0.15	0.00	
	0.00	15.00	1	15.00	2.40	2.40	0.15	5.40	
	15.00	30.00	1	15.00	2.40	2.40	0.15	5.40	
	30.00	45.00	1	15.00	2.40	2.40	0.15	5.40	
	45.00	60.00	1	15.00	2.40	2.40	0.15	5.40	
	60.00	75.00	1	15.00	2.40	2.40	0.15	5.40	
	75.00	90.00	1	15.00	2.40	2.40	0.15	5.40	
	90.00	94.50	1	4.50	2.40	2.40	0.15	1.62	
	Total Quantity							34.02	Cum
	Quantity Carried to Summary							34.02	Cum

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.
Bangalore.

Contractor Representative

Asst Engineer
Ward No.07
BBMP

Asst. Executive Engineer
Kodigehalli Sub Division
BBMP

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.
Bangalore.

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer, Byatarayanapura Division

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Measurement Sheet

1st & Final Bill

Name of Agency: Sri. N.Venkata Reddy

Item No.	4								
Item Name:	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2								

SL NO	CHAINAGE		NO	L (m)	B1 (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:									
Raft									
For RCC Drain									
				Upto Culvert					
	0.00	0.00	1	0.00			0.30	0.00	
	0.00	15.00	1	15.00			0.30	4.50	
	15.00	30.00	1	15.00			0.30	4.50	
	30.00	45.00	1	15.00			0.30	4.50	
	45.00	60.00	1	15.00			0.30	4.50	
	60.00	75.00	1	15.00			0.30	4.50	
	75.00	90.00	1	15.00			0.30	4.50	
	90.00	94.50	1	4.50			0.30	1.35	
	Total Quantity							28.35	Sqm
	Quantity Carried to Summary							28.35	Sqm

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Contractor Representative

Asst Engineer
Ward No.07
BBMP

15/7

Asst. Executive Engineer
Kodigehalli Sub Division
BBMP

Assistant Executive Engineer,
Kodigehalli Sub Division.
Yelahanka Zone, B.B.M.P.
Bangalore.

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer, Byatarayanapura Division

Name of Work: Construction of Drain from Gangamma Temple Road to Chikkasiddappa Layout Amruthahalli in Ward No.07 Byatarayanapura.

Measurement Sheet

1st & Final Bill

Name of Agency: Sri. N.Venkata Reddy

Item No.	5								
Item Name:	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2								

SL NO	CHAINAGE		NO	L (m)	B1 (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:									
Wall									
For RCC Drain									
				Upto Culvert					
	0.00	0.00	4	0.00			1.70	0.00	
	0.00	15.00	4	15.00			1.55	93.00	
	15.00	30.00	4	15.00			1.60	96.00	
	30.00	45.00	4	15.00			1.65	99.00	
	45.00	60.00	4	15.00			1.70	102.00	
	60.00	75.00	4	15.00			1.60	96.00	
	75.00	90.00	4	15.00			1.60	96.00	
	90.00	94.50	4	4.50			1.70	30.60	
	Total Quantity							612.60	Sqm
	Quantity Carried to Summary							612.60	Sqm

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.
Bangalore

Contractor Representative

Asst Engineer
Ward No.07
BBMP

Asst. Executive Engineer
Kodigehalli Sub Division
BBMP

Assistant Executive Engineer.
Kodigehalli Sub Division.
Yelahanka Zone, B.B.M.P.,
Bangalore.

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer, Byatarayanapura Division

Name of Work: Construction of Drain from Gangamma Temple Road to Chikkasiddappa Layout Amruthahalli in Ward No.07 Byatarayanapura.

Measurement Sheet

1st & Final Bill

Name of Agency: Sri. N.Venkata Reddy

Item No.	6 (8)								
Item Name:	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) M20 for R.C.C works laid in 15 cms thick layers and well compacted by vibrating, curing, for foundations & sub-structure works with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.)								

SL NO	CHAINAGE		NO	L (m)	B1 (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:									
Raft									
For RCC Drain									
Upto Culvert									
	0.00	0.00	1	0.00	2.10		0.30	0.00	
	0.00	15.00	1	15.00	2.10	2.10	0.30	9.45	
	15.00	30.00	1	15.00	2.10	2.10	0.30	9.45	
	30.00	45.00	1	15.00	2.10	2.10	0.30	9.45	
	45.00	60.00	1	15.00	2.10	2.10	0.30	9.45	
	60.00	75.00	1	15.00	2.10	2.10	0.30	9.45	
	75.00	90.00	1	15.00	2.10	2.10	0.30	9.45	
	90.00	94.50	1	4.50	2.10	2.10	0.30	2.84	
Wall									
For RCC Drain								59.84	
Upto Culvert									
	0.00	0.00	2	0.00	0.20		1.70	0.00	
	0.00	15.00	2	15.00	0.20	0.20	1.55	9.30	
	15.00	30.00	2	15.00	0.20	0.20	1.60	9.60	
	30.00	45.00	2	15.00	0.20	0.20	1.65	9.90	
	45.00	60.00	2	15.00	0.20	0.20	1.70	10.20	
	60.00	75.00	2	15.00	0.20	0.20	1.60	9.60	

48.60

108.14

Assistant Executive Engg
Kodigehalli Sub Divisi
Yelahanka Zone, B.B.M
Bangalore.

ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ ಯಲಹಂಕ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಬೆಂಗಳೂರು-560092.

CR 108.14

(7)

SL NO	CHAINAGE		NO	L (m)	B1 (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
	75.00	90.00	2	15.00	0.20	0.20	1.60	9.60	
	90.00	94.50	2	4.50	0.20	0.20	1.70	3.06	
	Total Quantity							120.80	Cum
	Quantity Carried to Summary							120.80	Cum

30/10/19

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವ್ಯಾಪಾರಾಭಿವೃದ್ಧಿ ವಿಭಾಗ ಯಲಹಂಕ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಬೆಂಗಳೂರು-560092.

Contractor Representative

Asst Engineer 30/10
Ward No.07
BBMP

30/10/19

Asst. Executive Engineer
Kodigehalli Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer, Byatarayanapura Division

Name of Work: Construction of Drain from Gangamma Temple Road to Chikkasiddappa Layout Amruthahalli in Ward No.07 Byatarayanapura.

Measurement Sheet

1st & Final Bill

Name of Agency: Sri. N.Venkata Reddy

Item No.	8

Item Name: KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specification No. KBS 4.6.3 TMT bars Fe 550

Chainage From	Chainage To	Unit	No	Dia in mm	Span	Length of bar	Spacing (m)	Total No.of bars ((6/8)x4) +1	Total Length of bar (m) (7 x 9)	Weight per m	Qty in Kgs (10 x 11)	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13
		Tonne										
Premeasurement recorded on:												
for New RCC Drain												
0.00	15.00											
Raft			2	12.00	15.00	2.05	0.120	251.00	514.55	0.89	457.95	
			2	10.00	2.05	15.00	0.120	35.00	525.00	0.62	325.50	
Wall			4	12.00	15.00	2.20	0.120	501.00	1102.20	0.89	980.96	
			4	10.00	1.60	15.00	0.120	54.00	810.00	0.62	502.20	
Hanch			2	8.00	15.00	1.20	0.125	241.00	289.20	0.39	112.79	
15.00	30.00											
Raft			2	12.00	15.00	2.05	0.120	251.00	514.55	0.89	457.95	
			2	10.00	2.05	15.00	0.120	35.00	525.00	0.62	325.50	
Wall			4	12.00	15.00	2.20	0.120	501.00	1102.20	0.89	980.96	
			4	10.00	1.60	15.00	0.120	54.00	810.00	0.62	502.20	
Hanch			2	8.00	15.00	1.20	0.125	241.00	289.20	0.39	112.79	
30.00	45.00											
Raft			2	12.00	15.00	2.05	0.120	251.00	514.55	0.89	457.95	
			2	10.00	2.05	15.00	0.120	35.00	525.00	0.62	325.50	

2450.00

5542.25

Chainage From	Chainage To	Unit	No	Dia in mm	Span	Length of bar	Spacing (m)	Total No.of bars ((6/8)x4) +1	Total Length of bar (m) (7 x 9)	Weight per m	Qty in Kgs (10 x 11)	Remarks
Wall			4	12.00	15.00	2.20	0.120	501.00	1102.20	0.89	980.96	
			4	10.00	1.60	15.00	0.120	54.00	810.00	0.62	502.20	
Hanch			2	8.00	15 00	1.20	0.125	241.00	289.20	0.39	112.79	
45.00	60.00											
Raft			2	12.00	15.00	2.05	0.120	251.00	514.55	0.89	457.95	
			2	10.00	2.05	15.00	0.120	35.00	525.00	0.62	325.50	
Wall			4	12.00	15.00	2.20	0.120	501.00	1102.20	0.89	980.96	
			4	10.00	1.60	15.00	0.120	54.00	810.00	0.62	502.20	
Hanch			2	8.00	15.00	1.20	0.125	241.00	289.20	0.39	112.79	
60.00	75.00											
Raft			2	12.00	15.00	2.05	0.120	251.00	514.55	0.89	457.95	
			2	10.00	2.05	15.00	0.120	35.00	525.00	0.62	325.50	
Wall			4	12.00	15.00	2.20	0.120	501.00	1102.20	0.89	980.96	
			4	10.00	1.60	15.00	0.120	54.00	810.00	0.62	502.20	
Hanch			2	8.00	15.00	1.20	0.125	241.00	289.20	0.39	112.79	
75.00	90.00											
Raft			2	12.00	15.00	2.05	0.120	251.00	514.55	0.89	457.95	
			2	10.00	2.05	15.00	0.120	35.00	525.00	0.62	325.50	
Wall			4	12.00	15.00	2.20	0.120	501.00	1102.20	0.89	980.96	
			4	10.00	1.60	15.00	0.120	54.00	810.00	0.62	502.20	
Hanch			2	8.00	15.00	1.20	0.125	241.00	289.20	0.39	112.79	
90.00	94.50											
Raft			2	12.00	4.50	2.05	0.120	76.00	155.80	0.89	138.66	

6568-00 14415.06

Chainage From	Chainage To	Unit	No	Dia in mm	Span	Length of bar	Spacing (m)	Total No.of bars ((6/8)x4) +1	Total Length of bar (m) (7 x 9)	Weight per m	Qty in Kgs (10 x 11)	Remarks
			2	10.00	2.05	4.50	0.120	35.00	157.50	0.62	97.65	
Wall			4	12.00	4.50	2.20	1.90	10.00	22.00	0.89	19.58	
			4	10.00	1.60	1.60	2.20	4.00	6.40	0.62	3.97	
Hanch			2	8.00	4.50	1.20	0.125	73.00	87.60	0.39	34.16	
	Total Qty in Kgs										14570.40	
	Total Quantity										14.57	Tonne
	Quanity Limit to										14.50	Tonne
	Quantity Carried to Summary										14.50	Tonne

6590-00

12/7/19

Contractor Representative

Asst Engineer
Ward No.07
BBMP

12/7

Asst. Executive Engineer
Kodigehalli Sub Division
BBMP

12/7/19

Asst. Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.